AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A band rejection filter with attenuation poles comprising:

a plurality of series resonant circuits with one set of end terminals having a common

connection and another set of end terminals, each connected through via separate transmission

lines each having a length that is an odd multiple of about a one-quarter wavelength

corresponding to a resonance frequency of the plurality of series resonant circuits; and

a jump-coupling circuit for coupling pairs of non-adjacent series resonant circuits.

belonging to the plurality of series resonant circuits, to each other.

2. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 1, wherein said jump-coupling circuit includes a capacitor, a transmission line having a

length that is an odd multiple of about the one-quarter wavelength at the resonance frequency of

the plurality of series resonant circuits, and another capacitor, which are connected in series.

3. (Currently Amended) The band rejection filter with attenuation poles according to

Claim 2, wherein each of said plurality of transmission lines, said plurality of series resonant

circuit circuits, and said transmission line included in said jump-coupling circuit is formed of a

microstrip line, a slot line, or a coplanar line, which is formed on a dielectric substrate, and each

of said capacitor and said other capacitor consists of a chip capacitor, a gap capacitor formed of a

transmission line, or an interdigital capacitor.

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4. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 1, wherein said jump-coupling circuit includes a high impedance line having a length that

is an odd multiple of about the one-quarter wavelength at the resonance frequency of the

plurality of series resonant circuits, a low impedance line having substantially the same length as

said high impedance line, and another high impedance line having substantially the same length

as said high impedance line, which are connected in series.

5. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 4, wherein each of said plurality of transmission lines, said plurality of series resonant

circuits, said high impedance line, said low impedance line, and said other high impedance line is

formed of a microstrip line, a slot line, or a coplanar line which is formed on a dielectric

substrate.

6. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 1, wherein said jump-coupling circuit includes a capacitor.

7. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 6, wherein each of said plurality of transmission lines and said plurality of series resonant

circuits is formed of a microstrip line, a slot line, or a coplanar line, which is formed on a

dielectric substrate, and said capacitor consists of a chip capacitor, a gap capacitor formed of a

transmission line, or an interdigital capacitor.

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8. (Previously Presented) A band rejection filter with attenuation poles comprising:

a plurality of parallel resonant circuits each connected through separate transmission

lines having a length that is an odd multiple of about a one-quarter wavelength corresponding to

a resonance frequency of the plurality of parallel resonant circuits; and

a jump-coupling circuit for coupling two non-adjacent parallel resonant circuits,

belonging to the plurality of parallel resonance circuits, to each other.

9. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 8, wherein said jump-coupling circuit includes a capacitor, a transmission line having a

length that is an odd multiple of about the one-quarter wavelength at the resonance frequency of

the plurality of parallel resonant circuits, and another capacitor, which are connected in series.

10. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 9, wherein each of said plurality of transmission lines and said transmission line included

in said jump-coupling circuit is formed of a microstrip line, a slot line, or a coplanar line, which

is formed on a dielectric substrate, and each of said capacitor and said other capacitor consists of

a chip capacitor, a gap capacitor formed of a transmission line, or an interdigital capacitor.

11. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 9, said plurality of transmission lines consist of a rectangular waveguide, each of said

plurality of parallel resonant circuits consists of a dielectric resonator that is electromagnetically

coupled, via a coupling hole formed in a wider wall face of said rectangular waveguide, with said

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rectangular waveguide, said transmission line included in said jump-coupling circuit consists of a

jump-coupling waveguide disposed in a narrower wall face of said rectangular waveguide, and

each of said capacitor and said other capacitor consists of a coupling hole formed in the narrower

wall face of said rectangular waveguide.

12. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 8, wherein said jump-coupling circuit includes a high impedance line having a length that

is an odd multiple of about the one-quarter wavelength at the resonance frequency of the

plurality of parallel resonant circuits, a low impedance line having substantially the same length

as said high impedance line, and another high impedance line having substantially the same

length as said high impedance line, which are connected in series.

13. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 12, wherein each of said plurality of transmission lines, said high impedance line, said low

impedance line, and said other high impedance line is formed of a microstrip line, a slot line, or a

coplanar line which is formed on a dielectric substrate.

14. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 12, wherein said plurality of transmission line consist of a rectangular waveguide, each of

said plurality of parallel resonant circuits consists of a dielectric resonator that is

electromagnetically coupled, via a coupling hole formed in a wider wall face of said rectangular

waveguide, with said rectangular waveguide, each of said high impedance line and said other

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high impedance line consists of a narrower and thicker jump-coupling waveguide disposed in a

narrower wall face of said rectangular waveguide, and said low impedance line consists of a

wider and thinner jump-coupling waveguide disposed in the narrower wall face of said

rectangular waveguide.

15. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 8, wherein said jump-coupling circuit includes a capacitor.

16. (Previously Presented) The band rejection filter with attenuation poles according to

Claim 15, wherein each of said plurality of transmission lines is formed of a microstrip line, a

slot line, or a coplanar line, which is formed on a dielectric substrate, and said capacitor consist

of a chip capacitor, a gap capacitor formed of a transmission line, or an interdigital capacitor.

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